$$R_3$$
 R_4
 R_4
 R_5
 R_1
 R_5

FIG. 1

Halogenated IAA Analogues

FIG. 2

4-Alkyl-IAA Auxinic Analogues

The 4-alkyl-IAA compounds represented herein have the alkyl substituent group at position 4. The present invention also contemplates alkyl-IAA compounds having the same alkyl substituent groups at position 2, 5, 6 or 7. The instant invention provides alkyl substituents with 1-10 carbon atoms.

4-isobutoxy-IAA



The 4-alkoxy-IAA compounds represented herein have the alkyl substituent group at position 4. the present invention also contemplates alkoxy-IAA compounds having the same alkoxy substituent groups at position 2, 5, 6 or 7. The instant invention provides alkoxy substituents with 1-10 carbon atoms.

4-tert-butoxy-IAA

4-cyclobutoxy-IAA

4-Acyl-IAA Auxinic Analogues

The 4-acyl-IAA compounds represented herein have the acyl substituent group at position 4. The present invention also contemplates acyl-IAA compounds having the same acyl substituent groups at position 2, 5, 6 or 7. The instant invention provides acyl substituents with 1-10 carbon atoms.

4-Acylamido-IAA Auxinic Analogues

The 4-acylamido-IAA compounds represented herein have the acylamido substituent group at position 4. The present invention also contemplates acylamido-IAA compounds having the same acylamido substituent groups at position 2, 5, 6 or 7. The instant invention provides acylamido substituents with 1-10 carbon atoms.

FIG. 6

4-Acyloxy-IAA Auxinic Analogues

The 4-acyloxy-IAA compounds represented herein have the acyloxy substituent group at position 4. The present invention also contemplates acyloxy-IAA compounds having the same acyloxy substituent groups at position 2, 5, 6 or 7. The instant invention provides acyloxy substituents with 1-10 carbon atoms.